EXPERIMENT IN INDUSTRIAL EDU-CATION PROVES SUCCESSFUL.

Evening Classes in Which Many Manufacturing Processes Are Taught -Workmen Attend.

Springfield (Mass.) Republican. Springfield enjoys the distinction of having the only trades school in America con- lie school system which so directly benducted entirely at public expense as a part of the public school system. In other countries such schools are common, but in this country the school in this city is the first one established. It was established in October, 1899, when there were organized classes in machine shop practice, in toolmaking and in plumbing. The equipments usually expensive. There is no part of the of the shop of the Mechanic Arts High School are used by the Trades School, which makes it a comparatively inexpensive institution. The Mechanic Arts High School was established in 1898, and as soon as the shop equipments were completed Superintendent Balliet recommended to the school committee the establishment of an evening trades school which might utilize by the Knox Automobile Company, about 3 the equipment of these shops. The school | per cent, by the Elektron Manufacturing was opened in October, as stated, and as many classes were formed as could be ac- ton & Albany Railroad shops, the Boston commodated at the time. Two years ago the evening drafting school was incorporated in the school and a class in patternmaking was organized. Last October a class was formed in electricity and another one in the application of mathematics to the mechanical trades. The school at present consists of these classes, and last year had a total enrollment of 295. The actual attendance at the present time is 275, not including the number who study electricity. The course in mechanical drawing is a three-years' course, and consists of two lessons a week of two hours in length for twenty-two weeks each year. Fully 75 per cent. of the men in this class apply their mechanical drawing to their daily work, about 25 per cent, take the course merely for the sake of training. The course trains foremen and master mechanics to do their own drafting, such as is necessary in small shops, and all students are trained to read vited to inspect this exhibit. drawings and to work from them. Many members of this class in the past have secured good positions after completing the course. They range in age from fifteen to

tool-making have an enrollment of ninetyfive, with an average attendance of 85 per cent. They range in age from sixteen to forty-nine, the average age being a little over twenty-four years. Seventy per cent. of them are over twenty years of age. Nearly all of them are now engaged in their trade and come to the school to learn such parts of it as they have not learned in the machine shop. Many of them can run one machine and no others; they come to the school to learn to run other machines. There were 125 applicants for admission to this class, twenty-five of whom were refused on account of age and lack of qualifications. The preference is always given to men already employed at the trade. Some of the members of this class are working at other trades which are less remunerative and wish to become machinists and be able to obtain higher wages, As an actual fact the school has helped many men to increase their wages and a few to secure employment who were unemployed. Sixty per cent. of the members of this class are employed as machinists, 10 per cent. as engineers, 10 per cent. as blacksmiths and 20 per cent. unclassified. A CLASS IN PLUMBING.

forty-five. About 25 per cent. are over

The classes in machine shop practice and

twenty-five years of age.

The class in plumbing has three lessons a week and numbers twenty-one, with an average attendance of seventeen. They range in age between sixteen and forty-three, the average age being twenty-three. Sixty-five per cent. of them are over twenty years of age, the remainder from fifteen to twenty. 10 per cent. clerks, 10 per cent. unskilled laborers and 70 per cent. are apprentices already in the employ of master plumbers. A few years ago the master plumbers' association passed a vote to the effect that they would not employ any apprentices or helpers who did not attend this class in the trades school. This support to the school has been of great help. The attendance has been regular and the men have been earnest. Lectures are given once a week by the teacher of plumbing on various topics of the plumber's trade. These lectures are attended not only by the members of the class, but also by many employers and master plumbers. As many as six journeymen have taken the regular course of instruction within the last few years. In the two years' course students can learn to do as high a grade of work as was possible under the old apprentice system after five years of service as apprentice. It is very difficult for the apprentices to get any practice, on account of the contract and competitive system, which makes it impossible for master plumbers to give instruction and direction. It is not possible, under the apprentice system, either to give scientific instruction or teach the men the reasons for everything, as it is in the class organ-

ized in the school The class in pattern making this year numbers twenty and has three lessons a week. It has an average attendance of 80 per cent., and the average age of the class is twenty-two years, the youngest being fifteen and the oldest thirty-nine. About 50 per cent. average in age between fifteen and twenty, 20 per cent, between twenty and twenty-five and 30 per cent. between twenty-five and thirty. Of the members of the class 40 per cent. are registered as now employed as machinists, 15 per cent. as wood workers, 20 per cent. as clerks and 25 per cent. as unclassified. The men employed in the daytime as wood workers who belong to this class will receive an advancement in wages of about \$1 because of their taking the course. This is a very common experience. Some of the members of this class had applied for admission to the tool-making class, but were rejected because of insufficient preparatory training. After one year of wood work they will be able to begin work in the machine shop.

It is interesting to note the school education which the members of the various classes had in their earlier years. Of the plumbing class 15 per cent. had attended a high school, 30 per cent, had reached the highest grammar grade, 25 per cent. had reached the eighth grade and 30 per cent. the seventh grade. In other words, 85 per cent. of the members of this class had never reached the high school. Of the class in machine shop practice 28 per cent. had attended a high school, 30 per cent. had reached the ninth grade, 28 per cent. had been in the eighth grade of a grammar school and 14 per cent, in the seventh grade; hence 72 per cent, had never reached the high school. Of the class in pattern making only 5 per cent. had ever attended a high school, 15 per cent, had reached the ninth grade, 35 per cent, the eighth grade, 30 per cent, the seventh grade and 15 per cent, the grades below the seventh. In other words, 95 per cent, of this class completed their education in the grammar schools.

MATHEMATICAL TRAINING. The class in mathematics numbers twenty-two and has an average attendance of 75 per cent. This class was organized after the school had opened in October and the nature of the work to be done was not clearly understood, else the attendance would have been much larger. The elements of arithmetic, algebra, geometry and trigonometry are taught, but only in so far as practical application can be made of them to the mechanical trades. Men who use mathematical formulas in their daily work and who follow them mechanically without knowing how they are derived are taught the mathematical principles underlying them. The principles of physics are also taught in so far as they apply to the mechanical trades.

The registered membership of the class in electricity is forty-seven, but the attendance at a number of single lectures on subjects of special interest was very much larger. About 40 per cent, are private students in electricity and have taken the course as a means of education without any directly practical purpose in view, 20 per cent, are connected with firms engaged in electrical construction, 30 per cent. are mechanics. This course is given by the principal of the school, who is a specialist in physics and who is an expert in electricity

in its practical applications. The per capita cost for last year was Each member of the tool-making, plumbing and woodwork classes is charged 5 for incidentals and breakage. No tuition is charged. Every year the tool-making class makes a number of tools, all of which become the property of the city and are used in the machine shops of the day high school. Since the organization of the school

A PUBLIC TRADE SCHOOL in 1899 this class has made small tools to the value of \$600, miscellaneous tools \$75, physical apparatus \$40, five speed lathes \$200, making a total of \$915. Three lectures were given by the teach-

er of the tool-making class on hardening and tempering steel. This class was very popular and had an average attendance of seventy-five. Many journeymen tool makers and some manufacturers attended these classes. The total number of men in all the classes who are now employed as regular workmen in their trade is 209. There are very few students who are not now engaged as workmen. The school is therefore training the men already engaged in the manufacturing establishments of Springfield, giving them a higher degree of skill and making them more efficient. This is an advantage to the men because they can demand higher prices for their work, and to the manufacturers because their men are being trained to do a better quality of work. There is no part of the pubefits either the skilled workmen or the employer of skilled labor. If this school is fostered it will raise the standard of the higher mechanical trades of the city. Since the school can use the equipments of the shops of the Manual Training High School which otherwise would be idle in the evening, the cost of conducting it is comparatively small, while trade schools which supply their own equipments are public school system where a dollar will go so far as in this school. About 30 per cent, of the men in the school are employed in the United States armory shops, about 10 per cent. of them are employed by Smith Wesson, about 10 per cent. by the Baush Machine Company, and about the same per cent. by the Wason Car Company, about 6 per cent. by the Waltham Watch Tool Company, about 3 per cent. by the Chapman Valve Company, about 4 per cent, Company. Other manufacturing interests whose men attend this school are the Bos-& Maine shops, Barney & Berry, Warwick Manufacturing Company, Metallic Drawing

Roll Company, J. B. Chapman Company, Morgan Envelope Company, George A. Schastey Company, Densmore Typewriter Company. Blake Manufacturing Company and Blair Manufacturing Company. This school has attracted considerable attention from the fact that it is the only municipal trades school in the country. The question of organizing a similar school is being considered in Cambridge and at Hartford and New Haven. In Boston a movement is on foot to run the shops of the Manual Training High School in the evening for trade work, but no definite action has been taken in any of these cities. The school closes this evening and there will be an exhibition of work to-night and to-morrow night at the school in the Mechanic Arts High School building, directly back of the engine house at the head of State street. The public is cordially in-

A COMMON MISTAKE.

Increase of Spectacle-Wearing Does Not Mean Increasing Eye Failure.

M. Le Roux, a French lecturer, speakng of his American audiences, says: "I had but one regret as I looked down into their faces. I saw too many spectacles. They have worked their eyes so hard that their sight is failing. They should not let their love for knowledge impair their

The newspapers without medical advisers have begun to echo this inane remark, and in the next month it will probably be reprinted a thousand times. American oculists will think of the famous correction of the dictionary definition of a crab. It had been given as "a small, red fish which travels backward," and was pronounced by the scientist correct, with the exception that 'the crab is not a fish, not red, and does not travel backward." So in the case of M. Le Roux's Americans, they have not worked their eyes harder than other nations, their love for knowledge has not impaired their vision, and their sight is not failing. Tout au contraire, our eyes are far less diseased than those of Europeans who have yet to learn that proper spectacles prevent more serious ocular and also much systematic disease. Our people have good leather shoes instead of going barefoot or wearing sabots, but the fact is not a proof that our feet are weaker or more diseased than those of the French peasant. They also have secured scientific care of their teeth, but that does not prove that carious teeth are superior to "filled" ones, or that no teeth are preferable to artificial ones. M. Le Roux's ophthalmology shows that French ophthalmologists should cross the ocean and take a post-graduate course in

Senatorial Conundrums.

American ophthalmology.

"And what," said Senator Spooner, "is the office to which Mrs. Carrie Chapman Catt should be elected?' "Really," replied Senator Platt, of Connecticut, "I cannot say." "She should be president of the North American Skat Association.'

"Tell me," said Senator Pettis, putting a long forefinger against the breast of Senator Lodge, "why a heavily lined sheet of paper is like a young dog much fatigued."
"Impossible!" protested Senator Lodge.
"Not at all," replied the oldest man in the Senate. "One is an ink-lined plane and the other is a slow pup."

Land Ho!

I know 'tis but a loom of land, let it is land, and so I will rejoice, know I cannot hear His voice Upon the shore, nor see Him stand; Yet is it land, ho! land.

The land! the land! the lovely land! "Far off" dost say? Far off—ah, blessed home! Farewell! farewell! thou salt sea-foam! Ah, kneel upon the silver sand-Land, ho! land.

You cannot see, and yet the land is there-

My land, my land, through murky air-I did not say 'twas close at hand-But-land, ho! land. Dost hear the bells of my sweet land, Dost hear the kine, dost hear the merry birds?

No tongue that thou may'st understand-Yet it is land, ho! land.

It's clad in purple mist, my land, In regal robe it is appareled. A crown is set upon its head. And on its breast a golden band-

You cannot see the land, my land,

Dost wonder that I long for land? My land is not a land as others are-Upon its crest there beams a star, And lilies grow upon the strand— Land, ho! land.

Give me the helm, there is the land! Ha! lusty mariners, she takes the breeze! And what my spirit sees it sees-Leap, bark, as leaps the thunder-brand-Land, ho! land.



We claim Purity and Safety, and substantiate this claim with Chemists' Certificate.

Note the blue label used by us (and fully sustained by recent U. S. Circuit Court decision) to distinguish our absolutely pure Agate Nickel-Steel Ware. This label is pasted on every piece of genuine Agate Ware. A full assortment of these goods for sale by all the leading DEPARTMENT and HOUSE FURNISHING STORES.

LALANCE & GROSJEAN MFG. CO.

Booklet showing fac-simile of our label, etc. free to any address.

ARE SAFE.



Fresh Cut CARNATIONS Monday at 20c Per Doz. Fresh Flowers Daily About One-Half of that Shipment of ORIENTAL RUGS Still to be Had.



Save A Third on Suits



HIS is not a figure of speech or printing. Reduction was the penalty they paid for getting at the head of this advertisement. Nearly three hundred exquisitely tailored Suits have been bought at a decided discount in price. They are not "cheap" suits (the lowest number was made to sell at twenty-five dollars), but every garment bears the imprint of artistic and exclusive style. THE EARLY BUYERS MONDAY

Ladies's Tailor-made SUITS of Fine Cheviot Serges, new Gibson style, blue and black, Taffeta Silk lined jacket, Taffeta strap trimmed, new flare flounce skirt, Taffeta \$18.50 silk trimmed—Monday.....

Eighty-five styles Ladies' Tailor-made SUITS, Eton, Gibson, blouse and fitted styles, etamines, coverts, broadcloths, blanket cloth and blind cheviot, new style trimmings, new skirts-Monday.....

Ladies' New Blue and Black Etamine Tailor-made SUITS, new Eton jacket, silk, moire and steel buckle trimmed, flare \$32.50 flounce skirts, trimmed drop skirt, with deep silk ruffle-Monday

Ten Ladies' Fine Imported Tailor-made SUITS, black broadcloth, Venetian and Peau de Soie silk, all handsomely \$35.00 trimmed, lined throughout with silk, sold up to \$95 -Monday.....

Taffeta, crepe, nets and laces, \$95.00 at \$22.50, \$35.00, \$47.50 up to....

We show the largest line of Ladies' Fine Silk

Dress Skirts in the city, made of Peau de Soie,

Ladies' New Taffeta Silk Top Coats, 22 and 27 inches long, full box back, full front, new sleeves, yoke lined, lapels faced \$18.50 with white satin, velvet straps, Monday \$16.50 and

Ladies' New Gibson Blouse Jackets of Peau de Soie and Taffeta Silks, silk lined throughout, new sleeves and cuffs, white silk and black satin trimmed, \$12.50 \$7.50 jacket-Monday

500 Ladies' New Taffeta, Peau de Soie and Moire Silk Waists, blacks, colors and white, Gibson and shirtwaist styles, new tucking, hemstitching and lace trimmings, \$8.50 waists—Monday....

PASSING Millinery

Originality and practicability are the key notes of the success of this Millinery store. Not a day but something new is shown and for tomorrow the show will be overwhelming. The Gibson Hat is here. It is new; it is pretty and like all hats can't be described, but come and see it.

Then the chic little Street and Suit Hats, tailored effects, most of them to be seen here only; zephyr weight sumatras with polka dot grass linen trimming, and dagger quills, priced \$1.98

New and exclusive Untrimmed Shapes, all kinds of braids 98c and some very stunning styles, \$4.00 down to...... Among the new Flowers worth seeing are White June Roses with black foliage, Silk Poppies with foliage, at 75c, and then, of course, the hundreds of table flowers, 48c down to.... 10c

Trimming White Goods

More of those charming ribbed and figured whites, perfectly mercerized and finished. There's no such showing in all Indianapolis.

Beautiful Mercerized Jacquard Fancy Madras in scrolls and fancy

Exclusive and Extreme novelties in beautiful oxford Cheviots, illuminated welt stripes, fancy Madras, embroidered stripes and pineapple tissues.

32 inch fine French Organdie, special at a yard......19c

A Matchless Sale of Foulards

Monday's shoppers will marvel at this tremendous movement of rarely beautiful Foulards, and participate in the most remarkable prices of the period. There's not a piece of this splendid collection but is new and fresh-the most exquisite colorings and designs in Foulards, Faccone and Liberty Satins.

Natural Pongee in all widths, 21, 27, 36

and 46 inches, prices 69c to, \$1.50

Twilled Satin Foulards, 24 inches wide, beautiful patterns, 85c val- 59c Liberty Satin Foulards, elegant patterns;

Duplain's French Satin Foulards, Facconne effects, \$1.35 val- \$1.00

Laces

Laces to trim everything, and

such a wonderful assortment!

We venture to assert that if all

the lace stocks of the city were

placed together the Wasson

stock would overshadow them

Heavy net Venice applique Laces, 3 inches wide, like sold at 98c, yd.. 59c

White, ecru and Arab Batiste and Point

Real hand-made Arabian lace \$1.25 Collars, worth \$2.25, at.....

\$3.50 real Arabian lace Collars, rever and jacket effects...... \$1.75

Venice Lace, 3 to 4 inches wide, regular \$1.25 and \$1.39 kinds..... 98c

collectively.

Those Pretty Ponge Silks, plain and colored figures for a serviceable Waist98c

Pretty Polka-dot Liberty Satin for Shirtwaists, all colors, yard..... 48c A new line of Taffeta Silks, made especially for this summer, dress goods linings, all colors, yard.... 39c Black Taffeta Silks, the warranted kind the only ones we handle. We have the ex-

clusive sale for this city of this mill's prod-

Black Goods

A list of wonderfully attractive values in black wool fabrics for Monday's buyers.

Granite Cloth, 54 inches wide, \$1.00 Minshall Crepe, \$1.00 quality, 69c Silk and wool Eolian, \$1.75 \$1.25 54-inch Cheviot, sponged and 79c shrunk, \$1.00 quality...... 54-inch Sicilian, \$1.00 quality, 59c 45-inch Brilliantine, 75c quality, 48c French Voille, \$1.00 quality, 75c

English Storm Serge, \$1.00 goods Pure mohair Hopsacking, sponged \$1.50 and waterproof, \$2.25 and Write for samples of our new summer wash fabrics.

Warranted to wear, \$1.00 value 68c Warranted to wear, extra wide, 89c

Moire Velour, elegant high luster 85c fabric, \$1.00 value for Moire Antique, Lyon's Silk, \$1.20

Oil boilled, woven on edges, warranted to wear, extra width, \$1.50 qual-ity.....\$1.19 (Write for samples.)

Basement

Bleached Cheese Cloth, 36 inches wide, fine close weave, mill remnants, 21c Bleached Towels, 32 inches long, Pillow Cases, made of fine bleached pillow case muslin, two for....... 15c

all grades in this big lot, hemmed, fringed and colors, one-fourth less than regular price, \$2.98, some down 47c Linings, 5,000 mill remnants, all kinds in this lot, lengths from 1 to 11 5c Corded Madras Ginghams, all choice 1902 patterns, mill remnants, yd....9c

Bed Spreads, manufacturer's sample line,

Percales, newest shirtwaist patterns, 86 grade, yard 71c Sheets, 21/x21/2, bleached, the well known Table Linen, assorted lot, all widths, bleached and unbleached, values up to

55c, choice of this entire lot, 39c

A STUPENDOUS SALE OF

Carpets, Rugs and Draperies

A tremendous concentration of efforts to bring together the greatest collection of new floor coverings and draperies ever shown by any Indiana establishment. The large contracts for furnishing homes, churches, lodge rooms, hotels and public buildings secured by this department over all competitors during the past year has demonstrated the superiority of this CARPET AND DRAPERY SECTION.

We Are Equipped for the Finest Work Our corps of designers, drapers, upholsterers and carpet makers has been gat hered from the leading houses

of the country. Expense has not been considered. Perfect work and originality the foremost thought. A wonderful showing of Domestic and Turkish Rugs in every known size. Laces and Draperies in exclusive designs.

Ecconomical People Will Appreciate These Values:

Hemstitched ruffled Swiss Curtains, with neat 8 special numbers in French Point and Brussels set in insertion borders; we warrant the colors not to fade, pair........... \$1.50 Lace Curtains, 4 styles of each in varied designs; plain centers with borders, and insertions on well-covered fields, all have strong 10 styles Nottingham Lace Curtains, 54 or 60 rear guard. Monday special, pair, \$4.50 inches wide, 31/2 yards long; all have overlocked button-hole edges; Renaissance, Gre-

cian and Floral patterns; every pair \$1.50 Ruffled Net Curtains, full width, 3 yards long, neat lace edged ruffles 11/2 inch, \$1.50

Lappet Muslin and Figured Swiss Curtains, yard

Yard-wide printed Swiss, colored dots, 9c figures and borders, yard.....9c Window Shades-6 feet by 86 inches, cloth shades...... 19c 7 feet by 36 in., best oil opaque shades 35c

70c strictly all wool extra super Ingrain Carpet, about 50 rooms of these, all choice patterns and colors, at special April sale-35c good reversible yard-wide two-ply 26c Carpet, in this special April sale......

85c Columbia Brussels, the heaviest yard-wide Brussels effect and best carpet for hard wear in the market, special April sale. . 73c \$1.00 Tapestry Brussels, all the very latest designs and colors for spring trade, strong

floral and Oriental patterns, special 79c \$1.25 Wilton Velvets, only a few patterns of the best makes with borders to match, A great opportunity in this special April sale 87c

\$2.75 Axminster Rugs, size 27x60, floral and Oriental rug patterns, April sale- \$1.98

45c Fiber Carpets, Japanese matting patterns in reds, browns greens, blues and other colors, best cheap bedroom summer carpet 38c made, special April sale..... \$4.00 Axminster Rugs, largest hearth size, in

all styles and colors, April sale-\$27.50 Axminster Rugs, size 9 feet by 12 feet. These you get in the special April \$21.60

\$25.00 Axminster Rugs, size 8-3x10-6, Oriental

and floral patterns, special April \$18.60 Straw Mattings, by the carload and all the

heavy China grades-38c quality, extra heavy, at 30c 32c quality, special extra heavy, at 23c

25c to 30c quality, special extra heavy..... 19c

and Jacquard figured white Swiss, yard . . 15C H. P. WASSON & COMPANY———THE BUSY, GROWING STORE—

Cable Net Curtains, have the appearance of real

lace, and launder better than any stand other make, 10 choice patterns, pair. \$3.00

Get our estimates on Window Shades. We

mount every shade we make on Hartshorn Im-

Arabian Curtains, full 31/2 yards long, 50 inches

wide; 3 good patterns, handsomely corded, Monday special, pair. \$3.50

Portiere Pabrics, 50 inches wide, vegetable color-

ings, plain and figured reps, two toned Dam-

Sidar striped Swiss, rose band plain Swiss

proved Spring Rollers:

8 feet by 36 in., best oil opaque shades 40c

-H. P. WASSON & COMPANY